

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 January 2001 (04.01.2001)

PCT

(10) International Publication Number
WO 01/01294 A3

(51) International Patent Classification⁷: G06F 17/30

(21) International Application Number: PCT/IB00/00863

(22) International Filing Date: 28 June 2000 (28.06.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/141,424 29 June 1999 (29.06.1999) US

(71) Applicant (for all designated States except US): GENE
LOGIC INC. [US/US]; 708 Quince Orchard Road,
Gaithersburg, MD 20878 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): TOPALOGLOU,
Thodoros [GR/US]; 657 Middle Avenue, Menlo Park, CA
94025 (US).

(74) Agents: FENSTER, Paul et al.; Fenster & Company
Patent Attorneys, Ltd., P.O. Box 10256, 49002 Petach
Tikva (IL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
23 May 2002

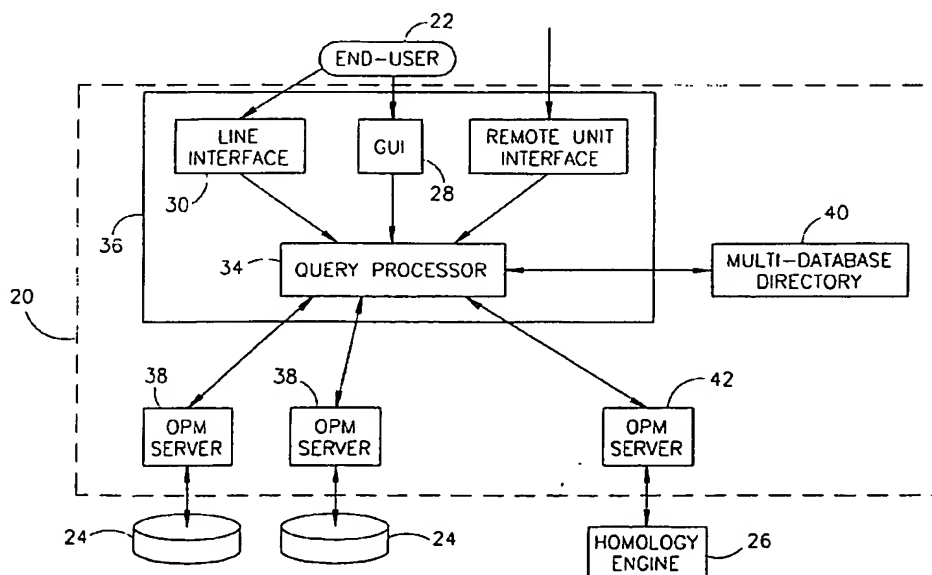
(15) Information about Correction:

Previous Correction:

see PCT Gazette No. 20/2001 of 17 May 2001, Section II

[Continued on next page]

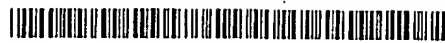
(54) Title: BIOLOGICAL DATA PROCESSING



(57) Abstract: A multi-database query system which queries a plurality of databases and servers, including an input which receives queries in a structured form and a translation server which translates at least a part of a received query into commands recognized by a data manipulation server.

WO 01/01294 A3

WO 01/01294 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB 00/00863

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 5 873 083 A (JONES WILLIAM PHILLIP ET AL) 16 February 1999 (1999-02-16) abstract; figures 2,3A column 4, line 47 -column 5, line 39 ---	1-3,5,6, 8,9 11
X A	US 5 835 755 A (STELLWAGEN JR RICHARD G) 10 November 1998 (1998-11-10) abstract; figure 3 ---	1-3,6,8, 9 11
A	US 5 495 606 A (BORDEN TERRY L ET AL) 27 February 1996 (1996-02-27) abstract; figure 1 --- -/-	1,8

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

28 January 2002

Date of mailing of the international search report

01/02/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Deane, E

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 00/00863

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MATSUDA H ET AL: "QUERYING MOLECULAR BIOLOGY DATABASES BY INTEGRATION USING MULTIAGENTS"</p> <p>IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, JP, vol. E82-D, no. 1, January 1999 (1999-01), pages 199-207, XP000831460</p> <p>ISSN: 0916-8532</p> <p>page 204, right-hand column, line 1 -page 205, right-hand column, line 9; figures 5-7</p> <p>-----</p>	1,8,11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 00/00863

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5873083	A	16-02-1999	US 5689698 A US 6067542 A	18-11-1997 23-05-2000
US 5835755	A	10-11-1998	JP 7319923 A	08-12-1995
US 5495606	A	27-02-1996	NONE	